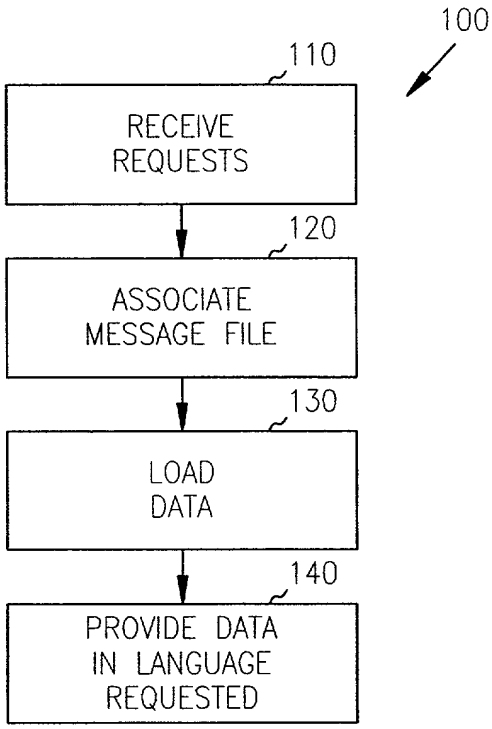
100
110
RECEIVE REQUESTS
120
ASSOCIATE MESSAGE FILE
130
LOAD DATA
140
PROVIDE DATA IN LANGUAGE REQUESTED

FIG. 1

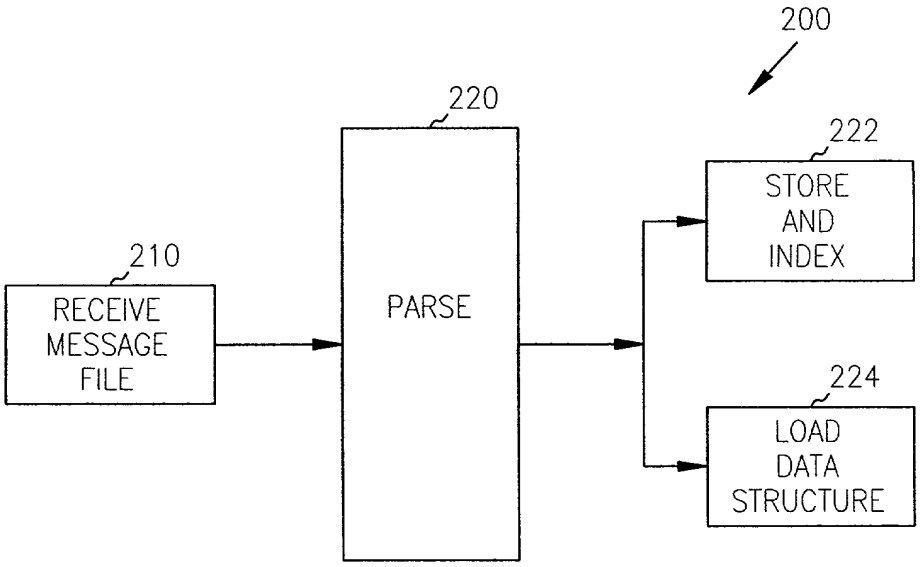
200
210
RECEIVE MESSAGE FILE
220
PARSE
222
STORE AND INDEX
224
LOAD DATA STRUCTURE

FIG. 2

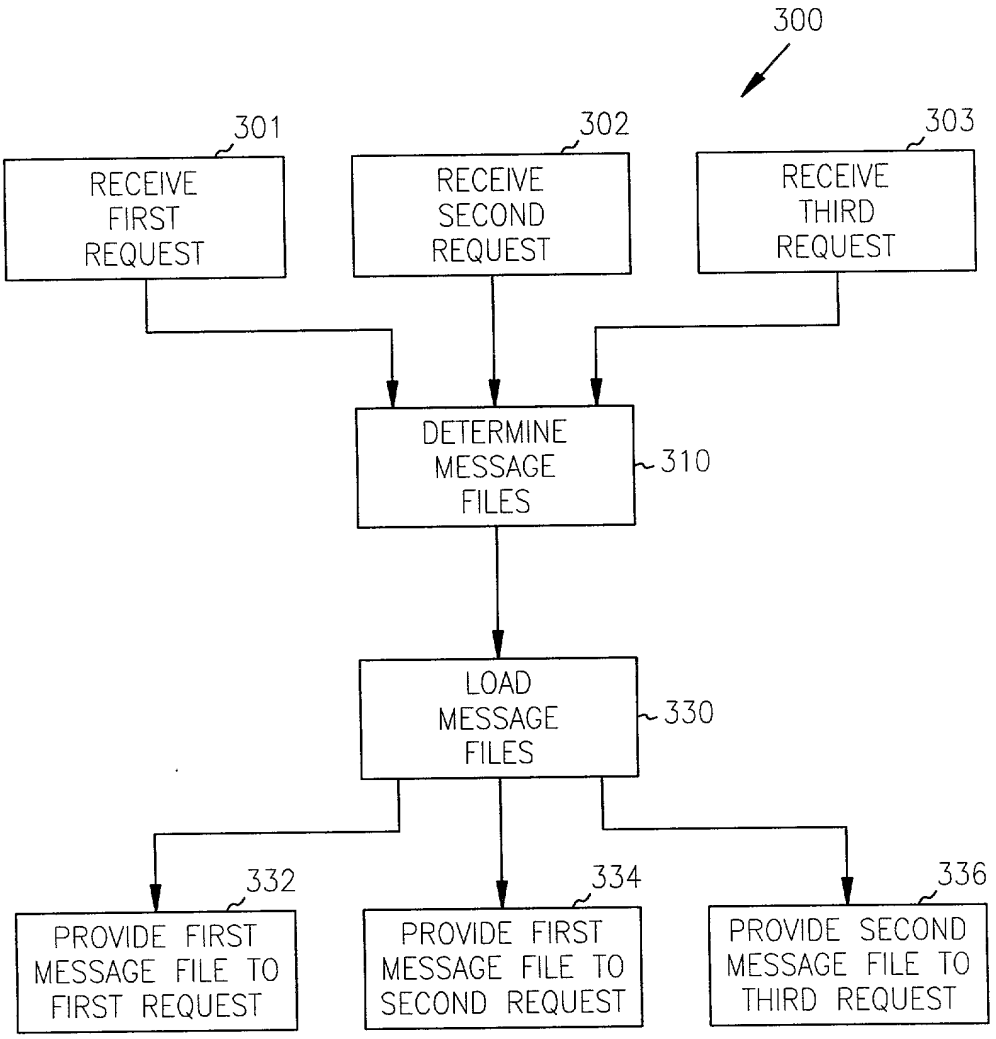
300
301
RECEIVE FIRST REQUEST
302
RECEIVE SECOND REQUEST
303
RECEIVE THIRD REQUEST
DETERMINE MESSAGE FILES
310
LOAD MESSAGE FILES
330
332
PROVIDE FIRST MESSAGE FILE TO FIRST REQUEST
334
PROVIDE FIRST MESSAGE FILE TO SECOND REQUEST
336
PROVIDE SECOND MESSAGE FILE TO THIRD REQUEST

FIG. 3

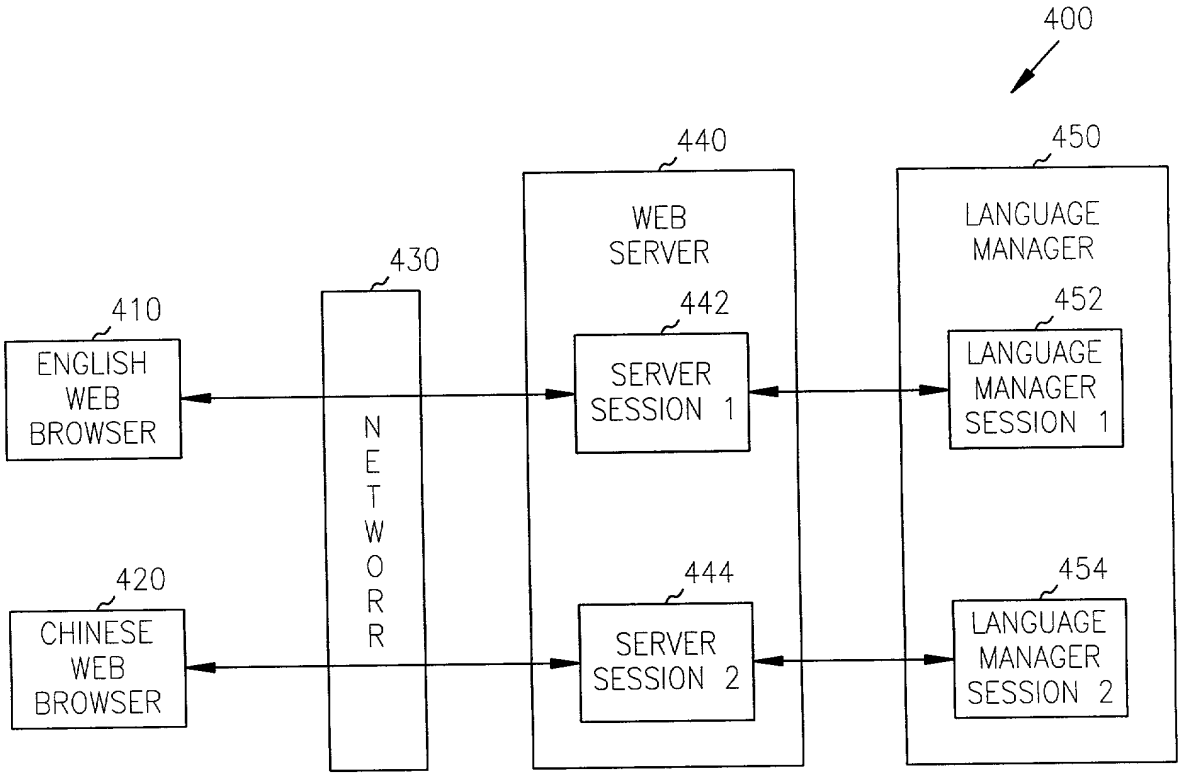
400
440
450
WEB SERVER
LANGUAGE MANAGER
430
410
442
452
ENGLISH WEB BROWSER
SERVER SESSION 1
LANGUAGE MANAGER SESSION 1
NETWORK
420
444
454
CHINESE WEB BROWSER
SERVER SESSION 2
LANGUAGE MANAGER SESSION 2

FIG. 4

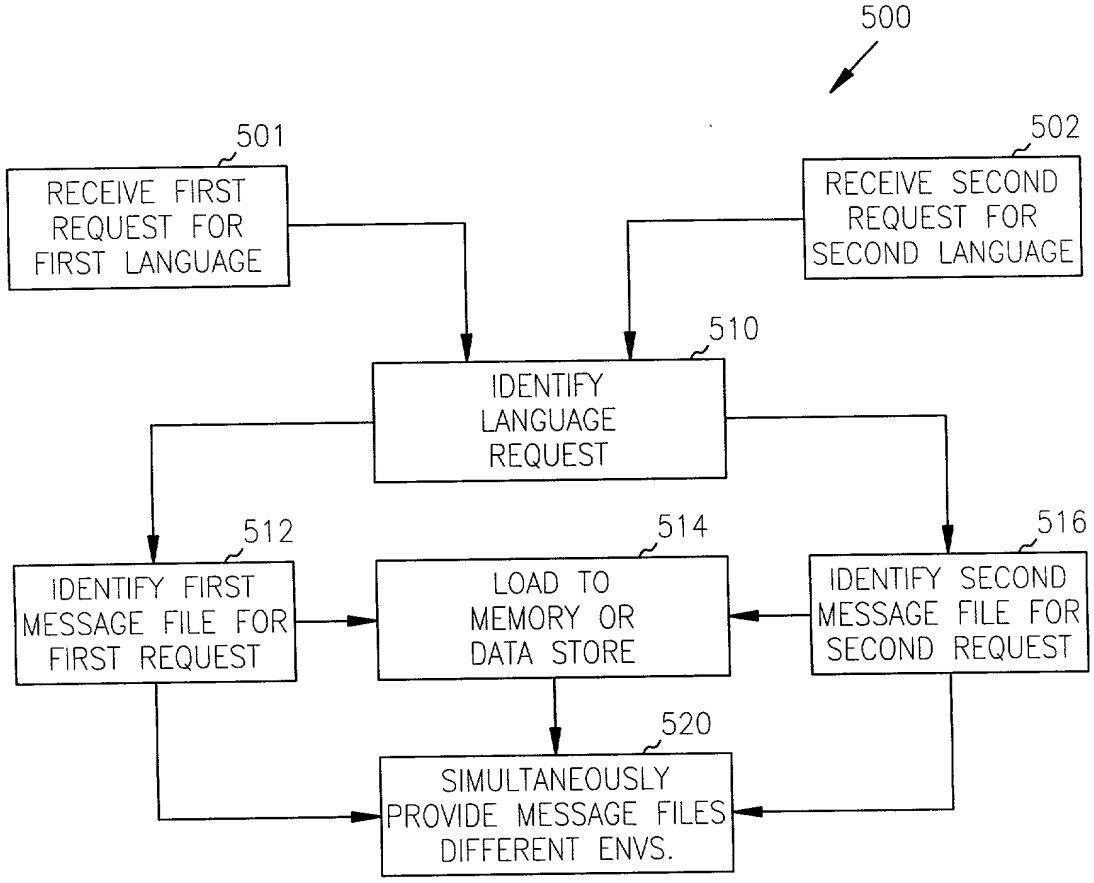
500
501
RECEIVE FIRST REQUEST FOR FIRST LANGUAGE
502
RECEIVE SECOND REQUEST FOR SECOND LANGUAGE
510
IDENTIFY LANGUAGE REQUEST
512
IDENTIFY FIRST MESSAGE FILE FOR FIRST REQUEST
514
LOAD TO MEMORY OR DATA STORE
516
IDENTIFY SECOND MESSAGE FILE FOR SECOND REQUEST
520
SIMULTANEOUSLY PROVIDE MESSAGE FILES DIFFERENT ENVS.

FIG. 5

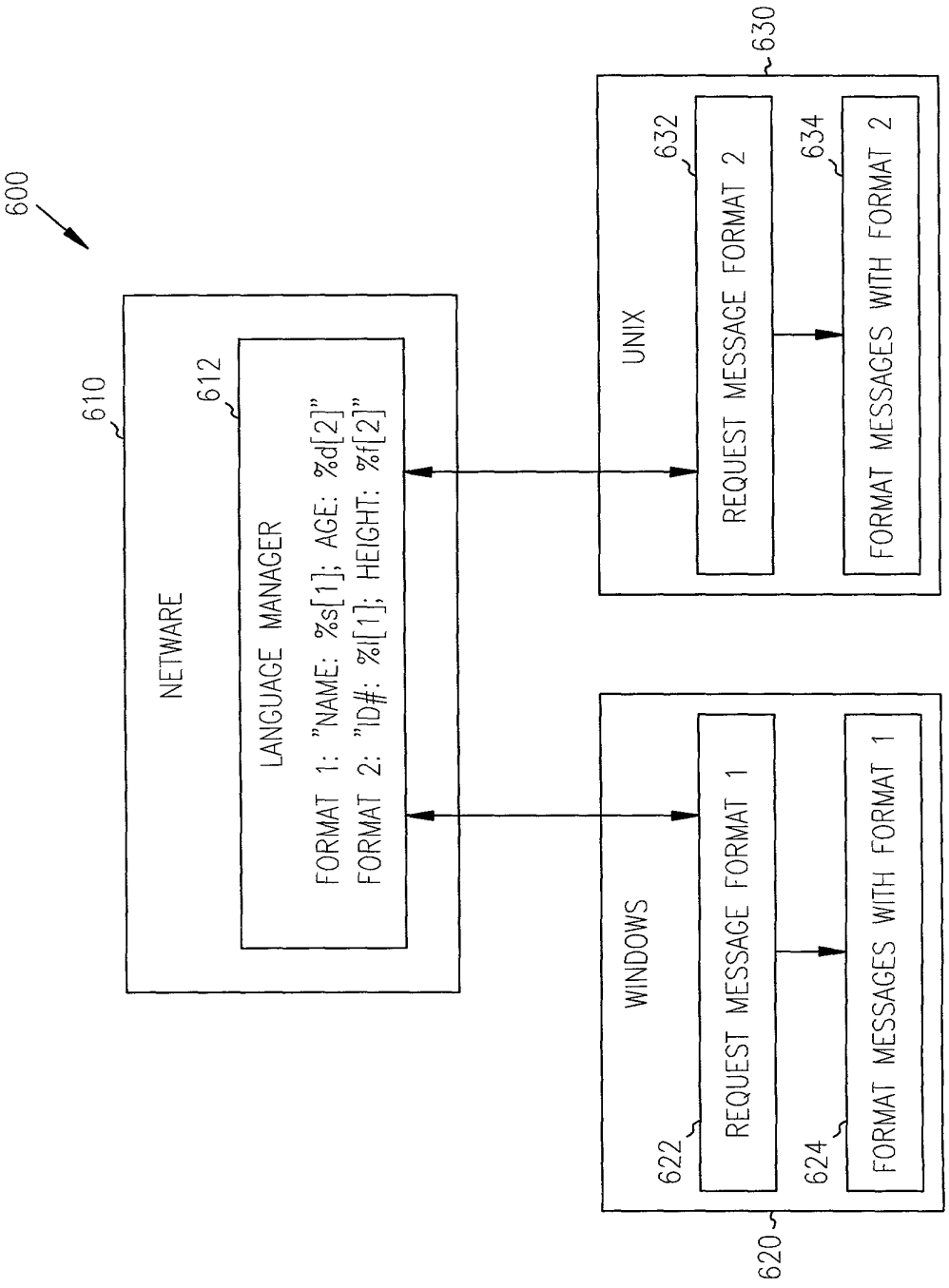
600
610
NETWARE
612
LANGUAGE MANAGER
FORMAT 1: "NAME: %s[1]; AGE: %d[2]"
FORMAT 2: "ID#: %i[1]; HEIGHT: %f[2]"
620
WINDOWS
622
REQUEST MESSAGE FORMAT 1
624
FORMAT MESSAGES WITH FORMAT 1
630
UNIX
632
REQUEST MESSAGE FORMAT 2
634
FORMAT MESSAGES WITH FORMAT 2

FIG. 6

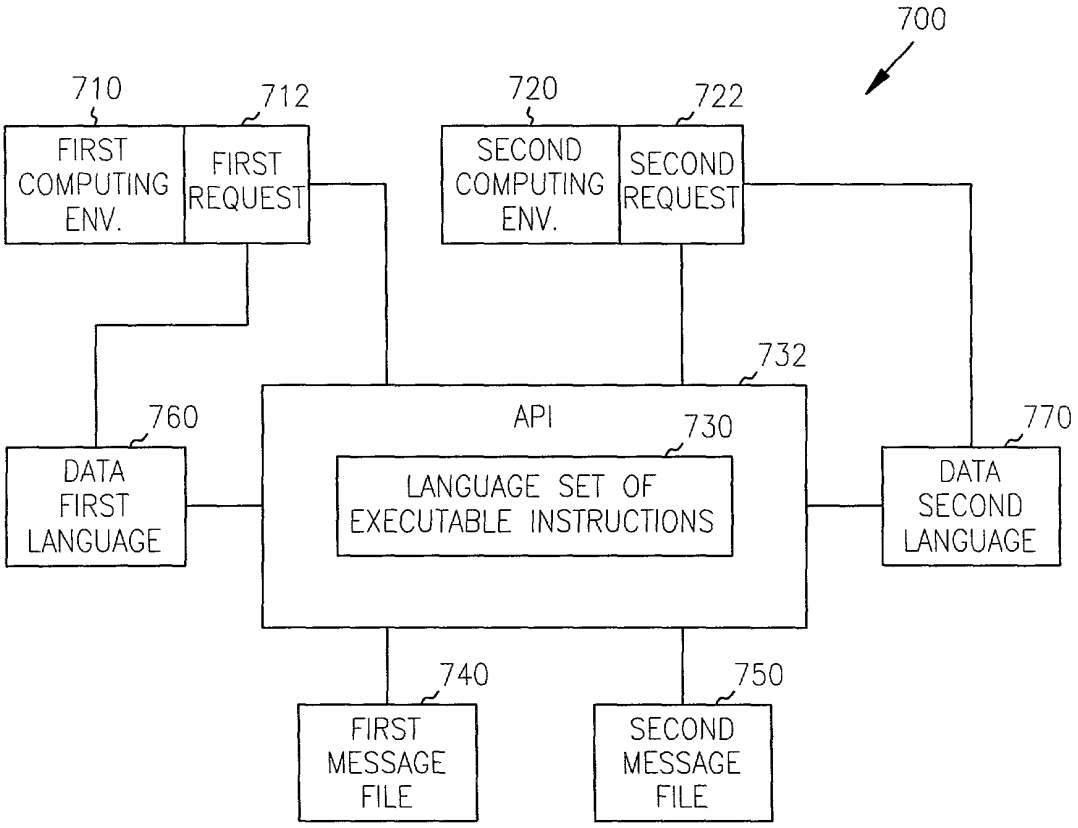

FIG. 7

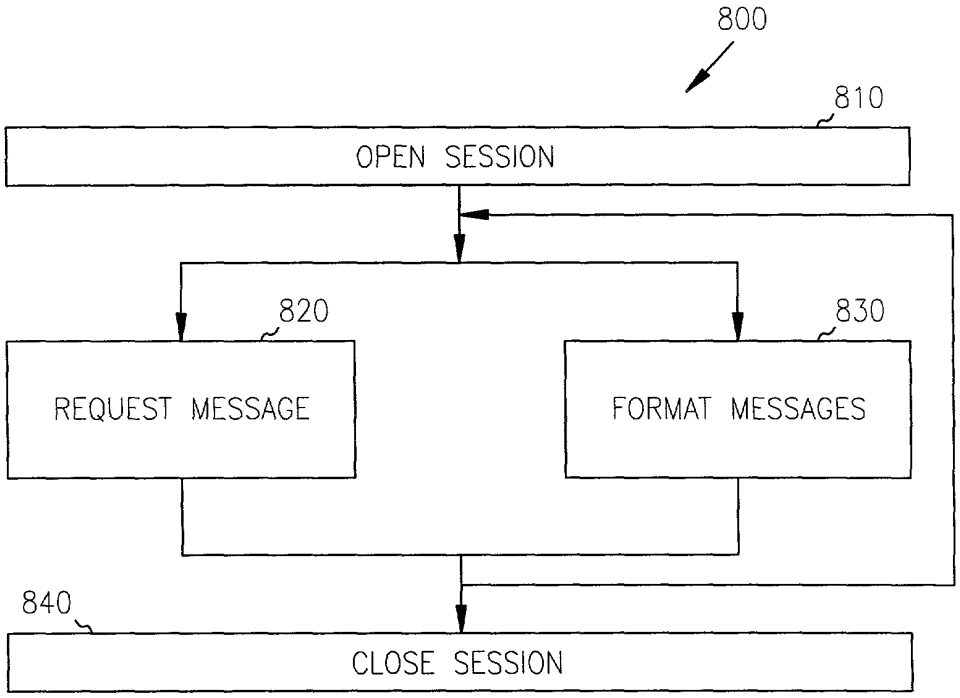

FIG. 8

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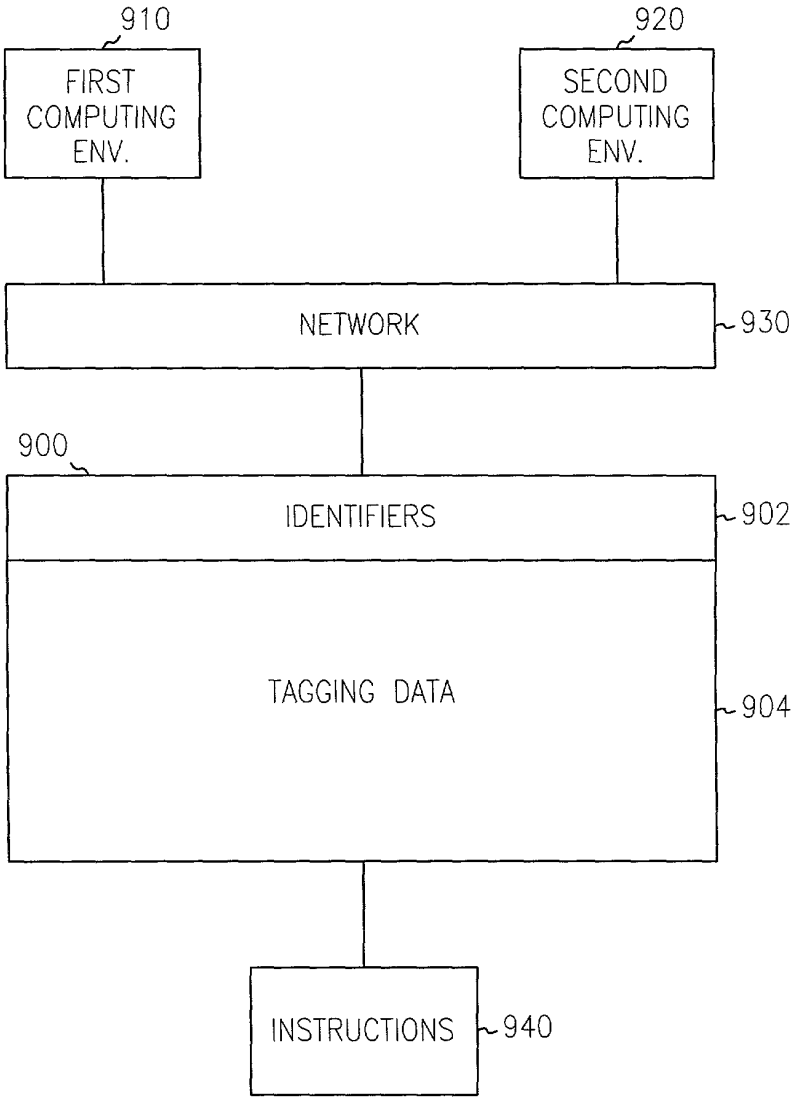
910
FIRST COMPUTING ENV.
920
SECOND COMPUTING ENV.
NETWORK
930
900
IDENTIFIERS
902
TAGGING DATA
904
INSTRUCTIONS
940

FIG. 9

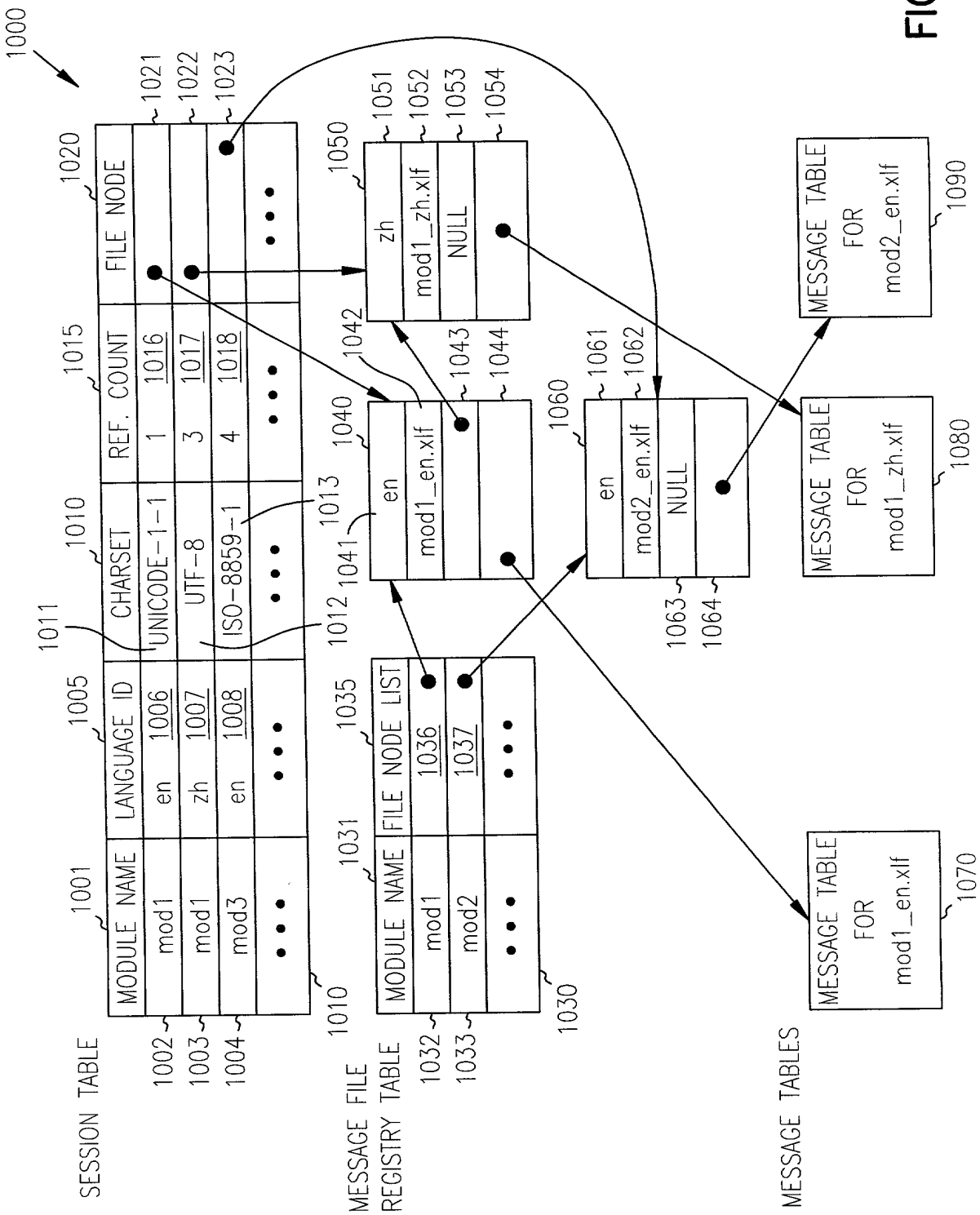
1000
SESSION TABLE
MODULE NAME
LANGUAGE ID
CHARSET
REF. COUNT
FILE NODE
mod1
en
UNICODE-1-1
1
mod1
zh
UTF-8
3
mod3
en
ISO-8859-1
4
MESSAGE FILE REGISTRY TABLE
MODULE NAME
FILE NODE LIST
mod1
mod2
zh
mod1_zh.xlf
NULL
en
mod1_en.xlf
en
mod2_en.xlf
NULL
MESSAGE TABLES
MESSAGE TABLE FOR mod1_en.xlf
MESSAGE TABLE FOR mod1_zh.xlf
MESSAGE TABLE FOR mod2_en.xlf

FIG. 10